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FORM PTO - 1449				ATTORNEY DOCKET NO.: RIB-001CP					
INFORMATION DISCLOSURE STATEMENT				APPLICANT(S): Steitz <i>et al.</i>					
				SERIAL NO.: 09/922,251					
				FILING DATE: August 3, 2001 GROUP: 2878					
U.S. PATENT DOCUMENTS									
EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME		CLASS	SUB CLASS	FILING DATE APPROPRIATE	
FOREIGN PATENT DOCUMENTS									
EXAM. INIT.		DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG (Y/N)
CAM	B1	EP 1 172 374 A1	01/16/02	EP	_____	_____	07/13/01		Yes
	B2	WO 99/63937 A3	12/16/99	PCT	_____	_____	06/08/99		Yes
↓	B3	WO 01/80863 A1	11/01/01	PCT	_____	_____	04/27/01		Yes
OTHER ART, JOURNAL ARTICLES, ETC.									
EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)								
CAM	C1	Agrawal <i>et al.</i> , (1998) "Visualization of elongation factor G on the <i>Escherichia coli</i> 70S ribosome: The mechanism of translocation," <u>Proc. Natl. Acad. Sci. USA</u> Vol. 95, pp. 6134-6138							
	C2	Ban <i>et al.</i> , (1999) "Placement of protein and RNA structures into a 5 Å-resolution map of the 50S ribosomal subunit," <u>Nature</u> Vol. 400, pp. 841-847							
	C3	Ban <i>et al.</i> , (1998) "A 9 Å Resolution X-Ray Crystallographic Map of the Large Ribosomal Subunit," <u>Cell</u> V Vol. 93, pp. 1105-1115							
	C4	Baranov <i>et al.</i> , (1998) "The Database of Ribosomal Cross links (DRC)," <u>Nucleic Acids Research</u> Vol. 26, No. 1, pp. 187-189							
	C5	Brodersen <i>et al.</i> , (2000) "The Structural Basis for the Action of the Antibiotics Tetracycline, Pactamycin, and Hygromycin B on the 30S Ribosomal Subunit," <u>Cell</u> Vol. 103, pp. 1143-1154							
	C6	Brünger, (1997) "Patterson Correlation Searches and Refinement," <u>Methods in Enzymology</u> , Vol. 276, pp. 558-580							
	C7	Carter <i>et al.</i> , (2001) "Crystal Structure of an Initiation Factor Bound to the 30S Ribosomal Subunit," <u>Science</u> Vol. 291, pp. 498-501							
	C8	Carter <i>et al.</i> , (2000) "Functional insights from the structure of the 30S ribosomal subunit and its interactions with antibiotics," <u>Nature</u> Vol. 407, pp. 340-348							
↓	C9	Cate <i>et al.</i> , (1999) "X-ray Crystal Structures of 70S Ribosome Functional Complexes," <u>Science</u> Vol. 285, pp. 2095-2104							

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OTHER ART, JOURNAL ARTICLES, ETC.

EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)	
Cgm	C10	Clemons Jr. <i>et al.</i> , (1999) "Structure of a bacterial 30S ribosomal subunit at 5.5 Å resolution," <u>Nature</u> Vol. 400, pp. 833-840
	C11	Culver <i>et al.</i> , (1999) "Identification of an RNA-Protein Bridge Spanning the Ribosomal Subunit Interface," <u>Science</u> Vol. 285, pp. 2133-2135
	C12	Dahlberg <i>et al.</i> , (2001) "The Ribosome in Action," <u>Science</u> Vol. 292, pp. 868-869
	C13	Douthwaite <i>et al.</i> , (1995) "Recognition determinants for proteins and antibiotics within 23S rRNA," <u>Biochem. Cell Biol.</u> Vol 73: pp. 1179-1185
	C14	Douthwaite <i>et al.</i> , (1993) "Erythromycin Binding is Reduced in Ribosomes with Conformational Alterations in the 23 S rRNA Peptidyl Transferase Loop," <u>Journal Mol. Biol.</u> Vol 232, pp. 725-731
	C15	Douthwaite, (1992) "Functional Interactions within 23S rRNA Involving the Peptidyltransferase Center," <u>Journal of Bacteriology</u> Vol. 174, No. 4, pp. 1333-1338
	C16	Gabashvili <i>et al.</i> , (2000) "Solution Structure of the <i>E. coli</i> 70S Ribosome at 11.5 Å Resolution," <u>Cell</u> , Vol. 100, pp. 537-549
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	C19	Gregory <i>et al.</i> , (1999) "Erythromycin Resistance Mutations in Ribosomal Proteins L22 and L4 Perturb the Higher Order Structure of 23 S Ribosomal RNA," <u>J. Mol. Biol.</u> Vol. 289, pp. 827-834
	C20	Hansen <i>et al.</i> , (1990) "Crystals of complexes mimicking protein biosynthesis are suitable for crystallographic studies," <u>Biochimica et Biophysica Acta</u> Vol. 1050, pp. 1-7
	C21	Harms <i>et al.</i> , (2001) "High Resolution Structure of the Large Ribosomal subunit from a Mesophilic Eubacterium," <u>Cell</u> Vol. 107, pp. 679-688
	C22	Harms <i>et al.</i> , (1999) "Elucidating the medium-resolution structure of ribosomal particles: an interplay between electron cryo-microscopy and X-ray crystallography," <u>Structure</u> Vol. 7, No. 8, pp. 931-941
	C23	Kloss <i>et al.</i> , (1999) "Resistance Mutations in 23 S rRNA Identify the Site of Action of the Protein Synthesis Inhibitor Linezolid in the Ribosomal Peptidyl Transferase Center," <u>J. Mol. Biol.</u> Vol 294(1)pp. 93-101
✓	C24	Lázaro <i>et al.</i> , (1996) "A Sparsomycin-resistant Mutant of <i>Halobacterium salinarium</i> Lacks a Modification at Nucleotide U2603 in the Peptidyl Transferase Centre of 23 S rRNA," <u>J. Mol. Biol.</u> Vol. 261(2) pp. 231-238



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C5M	C25	Lazaro <i>et al.</i> , (1991) "Chemical, biochemical and genetic endeavours characterizing the interaction of sparsomycin with the ribosome," <u>Biochimie</u> Vol. 73, pp. 1137-1143
	C26	Moazed <i>et al.</i> , (1989) "Interaction of tRNA with 23S rRNA in the Ribosomal A, P, and E Sites," <u>Cell</u> Vol. 57, pp. 585-597
	C27	Moazed <i>et al.</i> , (1987) "Chloramphenicol, erythromycin, carbomycin and vernamycin B protect overlapping sites in the peptidyl transferase region of 23S ribosomal RNA," <u>Biochimie</u> Vol. 69, pp. 879-884
	C28	Mueller <i>et al.</i> , (2000) "The 3D Arrangement of the 23 S and 5 S rRNA in the <i>Escherichia coli</i> 50 S Ribosomal Subunit Based on a Cryo-electron Microscopic Reconstruction at 7.5 Å Resolution," <u>J. Mol. Biol.</u> Vol. 298, pp. 35-59
	C29	Navaza <i>et al.</i> , (1997) "AMoRe: An Automated Molecular Replacement Program Package," <u>Methods in Enzymology</u> Vol. 276, pp. 581-595
	C30	Nissen <i>et al.</i> , (2000) "The Structural Basis of Ribosome Activity in Peptide Bond Synthesis," <u>Science</u> Vol. 289, pp. 920-930
	C31	Noller, (1991) "Ribosomal RNA and Translation," <u>Annu. Rev. Biochem.</u> Vol 60. Pp. 191-227
	C32	Ogle <i>et al.</i> , (2001) "Recognition of Cognate Transfer RNA by the 30S Ribosomal Subunit," <u>Science</u> Vol. 292, pp. 897-902
	C33	Pestka, (1974) "Antibiotics as Probes of Ribosome Structure: Binding of Chloramphenicol and Erythromycin to Polyribosomes; Effect of Other Antibiotics," <u>Antimicrobial Agents and Chemotherapy</u> Vol. 5, No. 3, pp. 255-267
	C34	Porse <i>et al.</i> , (1999) "Ribosomal Mechanics, Antibiotics, and GTP Hydrolysis," <u>Cell</u> Vol. 97, pp. 423-426
	C35	Porse <i>et al.</i> , (1999) "Sites of Interaction of Streptogramin A and B Antibiotics in the Peptidyl Transferase Loop of 23 S rRNA and the Synergism of their Inhibitory Mechanisms," <u>J. Mol. Biol.</u> Vol. 286(2), pp. 375-387
	C36	Ramakrishnan <i>et al.</i> , (1995) "Structures of prokaryotic ribosomal proteins: implications for RNA binding and evolution," <u>Biochem. Cell Biol.</u> Vol. 73, pp. 979-986
	C37	Rodriguez-Fonseca <i>et al.</i> , (1995) "Fine Structure of the Peptidyl Transferase Centre on 23 S-like rRNAs Deduced from Chemical Probing of Antibiotic-Ribosome Complexes," <u>J. Mol. Biol.</u> Vol. 247, pp. 224-235
	C38	Schlunzen <i>et al.</i> , (2000) "Structure of Functionally Activated Small Ribosomal Subunit at 3.3 Å Resolution," <u>Cell</u> Vol. 102, pp. 615-623
✓	C39	Schlünzen <i>et al.</i> , (2001) "Structural basis for the interaction of antibiotics with the peptidyl transferase centre in eubacteria," <u>Nature</u> Vol. 413, pp. 814-821



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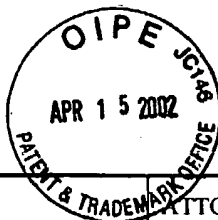
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OTHER ART, JOURNAL ARTICLES, ETC.

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OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)

C40	Shinabarger <i>et al.</i> , (1997) "Mechanism of Action of Oxazolidinones: Effects of Linezolid and Eperezolid on Translation Reactions," <u>Antimicrobial Agents and Chemotherapy</u> Vol. 41, No. 10, pp. 2132-2136
C41	Swaney <i>et al.</i> , (1998) "The Oxazolidinone Linezolid Inhibits Initiation of Protein Synthesis in Bacteria," <u>Antimicrobial Agents and Chemotherapy</u> Vol. 42, No. 12, pp. 3251-3255
C42	Tocij <i>et al.</i> , (1999) "The small ribosomal subunit from <i>Thermus thermophilus</i> at 4.5 Å resolution: Pattern fittings and the identification of a functional site," <u>Proc. Natl. Acad. Sci.</u> Vol. 96, No. 25, pp. 14252-14257
C43	Trakhanov <i>et al.</i> , (1987) "Crystallization of 70 S ribosomes and 30 S ribosomal subunits from <i>Thermus thermophilus</i> ," <u>FEBS Letters</u> Vol. 220, No. 2, pp. 319-322
C44	Tsiodras <i>et al.</i> , (2001) "Linezolid resistance in a clinical isolate of <i>Staphylococcus aureus</i> ," <u>The Lancet</u> Vol. 358, pp. 207-208
C45	Vannuffel <i>et al.</i> , (1992) "Identification of a Single Base Change in Ribosomal RNA Leading to Erythromycin Resistance," <u>Journal of Biological Chemistry</u> Vol. 267, No. 12, pp. 8377-8382
C46	Vannuffel <i>et al.</i> , (1996) "Mechanism of Action of Streptogramins and Macrolides," <u>Drugs</u> Vol. 51, Suppl 1, pp. 20-30
C47	Vester <i>et al.</i> , (1988) "The importance of highly conserved nucleotides in the binding region of chloramphenicol at the peptidyl transfer centre of <i>Escherichia coli</i> 23S ribosomal RNA," <u>The EMBO Journal</u> Vol. 7, No. 11, pp. 3577-3587
C48	Vester <i>et al.</i> , (2001) "Macrolide Resistance Conferred by Base Substitutions," <u>Antimicrobial Agents and Chemotherapy</u> Vol. 45, No. 1, pp. 1-12
C49	Volkman <i>et al.</i> , (1990) "Characterization and Preliminary Crystallographic Studies on Large Ribosomal Subunits from <i>Thermus thermophilus</i> ," <u>J. Mol. Biol.</u> Vol. 216, pp. 239-241
C50	Wimberly <i>et al.</i> , (2000) "Structure of the 30S ribosomal subunit," <u>Nature</u> Vol. 407, pp. 327-339
C51	Wittmann <i>et al.</i> , (1982) "Crystallization of <i>Escherichia coli</i> ribosomes," <u>FEBS Letters</u> Vol. 146, No. 1, pp. 217-220
C52	Xiong <i>et al.</i> , (2000) "Oxazolidinone Resistance Mutations in 23S rRNA of <i>Escherichia coli</i> Reveal the Central Region of Domain V as the Primary Site of Drug Action," <u>Journal of Bacteriology</u> Vol. 182, No. 19, pp. 5325-5331
C53	Yonath <i>et al.</i> , (1998) "Crystallographic Studies on the Ribosome, a Large Macromolecular Assembly Exhibiting Severe Nonisomorphism, Extreme Beam Sensitivity and No Internal Symmetry," <u>Acta Cryst.</u> Vol. A54, pp. 945-955
C54	Yusupova <i>et al.</i> , (2001) "The Path of Messenger RNA through the Ribosome," <u>Cell</u> Vol. 106, pp. 233-241



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OTHER ART, JOURNAL ARTICLES, ETC.

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OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)

C55	Yusupov <i>et al.</i> , (2001) "Crystal Structure of the Ribosome 5.5 Å Resolution," <i>Science</i> Vol. 292, pp. 883-896
C56	Yusupov <i>et al.</i> , (1991) " <i>Thermus thermophilus</i> ribosomes for crystallographic studies," <i>Biochimie</i> Vol. 73, pp. 887-897
C57	Zemlicka <i>et al.</i> , (1993) "Hybrids of Antibiotics Inhibiting Protein Synthesis. Synthesis and Biological Activity," <i>J. Med. Chem.</i> Vol. 36, pp. 1239-1244
C58	Timmermans <i>et al.</i> , (1982) "Sparsophenicol: A New Synthetic Hybrid Antibiotic Inhibiting Ribosomal Peptide Synthesis," <i>J. Med. Chem.</i> Vol. 25, pp. 1123-1125
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Sheet 1 of 2

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OTHER ART, JOURNAL ARTICLES, ETC.									
EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)								
C5M	C60	Brunger <i>et al.</i> , (1998) "Crystallography & NMR System: A New Software Suite for Macromolecular Structure Determination" <u>Acta Cryst.</u> Vol. D54, pp. 905-921							
	C61	Garrett <i>et al.</i> , (1996) "The Peptidyl Transferase Center" <u>Ribosomal RNA</u> pp. 327-355							
	C62	Green <i>et al.</i> , (1997) "Ribosomes and Translation" <u>Annu. Rev. Biochem.</u> Vol. 66, pp. 679-716							
	C63	Guttell (1996) "Comparative Sequence Analysis and the Structure of 16S and 23S rRNA" <u>Ribosomal RNA</u> pp. 111-128							
	C64	Lipinski <i>et al.</i> , (1997) "Experimental and Computational Approaches to Estimate Solubility and Permeability in Drug Discovery and Development Settings" <u>Adv. Drug Deliv. Rev.</u> Vol. 23 pp. 3-25							
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	C66	Moore (1999) "Structural Motifs in RNA" <u>Annu. Rev. Biochem.</u> Vol. 67, pp. 287-300							
	C67	Moore (1998) "The Three-Dimensional Structure of the Ribosome and its Components" <u>Annu. Rev. Biophys. Biomol. Struct.</u> Vol. 27, pp. 35-58							
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✓	C70	Tronrud (1997) "TNT Refinement Package" <u>Macromolecular Crystallography, Part B, Methods in Enzymology</u> Vol. 277, pp. 306-319							

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C5M	C71	Van Bohlen (1991) "Characterization and Preliminary Attempts for Derivatization of Crystals of Large Ribosomal Subunits from <i>Haloarcula marismortui</i> Diffracting to 3 Å Resolution" <u>J. Mol. Biol.</u> Vol. 222, pp. 11-15
	C72	Welch <i>et al.</i> , (1995) "An Inhibitor of Ribosomal Peptidyl Transferase Using Transition-State Analogy" <u>Biochemistry</u> Vol. 34, pp. 385-390
	C73	Welch <i>et al.</i> , (1997) "23S rRNA Similarity from Selection for Peptidyl Transferase Mimcry" <u>Biochemistry</u> Vol. 36, pp. 6614-6623
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EXAMINER C. M. F.		DATE CONSIDERED January 15, 2004

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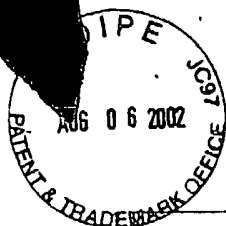
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SUPPLEMENTAL INFORMATION

DISCLOSURE STATEMENT

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U.S. PATENT DOCUMENTS

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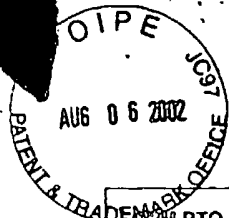
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EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)							
CSM	C75	Agalarov, S. <i>et al.</i> , (2000) "Structure of the S15, S6, S18-rRNA Complex: Assembly of the 30S Ribosome Central Domain," <u>Science</u> Vol. 288, pp. 107-112						
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CSM 01/15/04	C80	Hansen, L., <i>et al.</i> , (1999) "The Macrolide-Ketolide Antibiotic Binding Site is Formed by Structures in Domains II and V of 23S Ribosomal RNA," <u>Molecular Microbiology</u> Vol. 31, No. 2, pp. 623-631						
CSM 01/15/04	C81	Matadeen, R. <i>et al.</i> , (1999) "The <i>Escherichia Coli</i> Large Ribosomal Subunit at 7.5 A Resolution," <u>Structure</u> Vol. 7, pp. 1575-1583						
CSM	C82	Nakatogawa, H. <i>et al.</i> , (2002) "The Ribosomal Exit Tunnel Functions as a Discriminating Gate," <u>Cell</u> Vol. 108, pp. 629-636						

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C83 6/15/04	C83	Ramakrishnan, V., (2002) "Ribosome Structure and the Mechanism of Translation," <u>Cell</u> Vol. 108, pp. 557-572							
C84	C84	Spahn, C. et al., (1996) "Throwing a Spanner in the Works: Antibiotics and the Translation Apparatus," <u>Journal of Molecular Medicine</u> Vol. 74, pp. 423-439							
C85	C85	Tenson, T. et al., (2002) "Regulatory Nascent Peptides in the Ribosomal Tunnel," <u>Cell</u> Vol. 108, pp. 591-594							
	C86	European Search Report for EP Patent Application No.: 01 30 6825.8 dated May 24, 2002							

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	A7	5,281,703	01/25/94	White et al.	540 302	05/07/93
	A8	5,180,719	01/19/93	White et al.	514 190	04/29/91
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	A11	5,905,144	05/18/99	Truett	536 22.1	09/15/97
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EXAM. INIT.	DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG Y/N
CSM	B4	EP 1 186 614 A2	03/13/02	EP	—	07/16/01		
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	B7	WO 95/07271	03/16/95	WO	—	08/16/94		
	B8	WO 96/18633	06/20/96	WO	—	12/07/95		
✓	B9	WO 97/35195	09/25/97	WO	—	03/19/97		

EXAMINER C. M. / F	DATE CONSIDERED <i>January 15, 2004</i>
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SHEET 2 OF 2

FORM PTO - 1449		ATTORNEY DOCKET NO.: RIB-001CP
SUPPLEMENTAL INFORMATION		APPLICANTS: Steitz <i>et al.</i>
DISCLOSURE STATEMENT		SERIAL NO.: 09/922,251
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OTHER ART, JOURNAL ARTICLES, ETC.		
EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Place of Publication, Relevant Pages, Date)	
CSM	C101	Fourmy <i>et al.</i> (1996) "Structure of the A Site of <i>Escherichia coli</i> 16S Ribosomal RNA Complexed with an Aminoglycoside Antibiotic" <u>Science</u> 274(5291):1367-1371
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